

ABSTRACT

5 The invention relates to a device which is used to film, record and reproduce video
images in real time with a three dimensional appearance, using a video camera and a sonar
system in order to obtain the depth information. According to the invention, an electronic
system divides up the original image filmed in BGR format and each image is modified in
accordance with the depth register (or programming) in order to form new images. Each image
corresponds to a determined distance level. The result is displayed on a monitor comprising
10 various independent transparent LCD (liquid crystal display) screens which are aligned one
after the other. By displaying the images simultaneously, a single image is formed for the
spectator, said image creating an appearance of volume and three-dimensional perception
similar to low relief. The depth, video and sound signals are transmitted directly for
reproduction purposes and to the magnetic tape recording system for storage purposes, using
15 three magnetic tape heads.